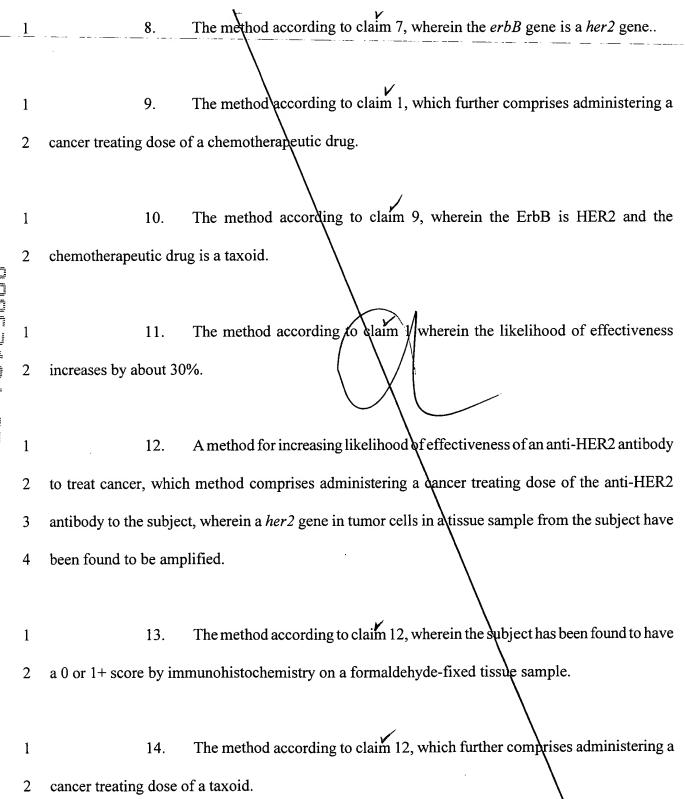
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## WHAT IS CLAIMED:

A method for increasing likelihood of effectiveness of an ErbB antagonist 1. 1 cancer treatment, which method comprises administering a cancer treating dose of the ErbB 2 antagonist to a subject, wherein an erbB gene in tumor cells in a tissue sample from the subject has 3 been found to be amplified. 4 The method according to claim 1, wherein the ErbB is a HER2 protein. 2. 1 The method according to daim 2, wherein the cancer is breast cancer. 3. The method according to claim 3, wherein the subject has been found to have 1 4. a 0 or 1+ score by immunohistochemistry on a formal dehyde-fixed tissue sample. 2 The method according to claim 1, wherein the ErbB antagonist is an anti-ErbB 1 5. 2 antibody. The method according to claim 5, wherein the ErbB is HER2, and the 1 6. antibody is recombinant human monoclonal antibody (rhuMAb) 4D5. 2 7. The method according to claim 1 wherein the erbB gene amplification is 1

detected by detecting fluorescence of a fluorescent-labeled nucleic acid probe hybridized to the gene.



	1	15.	A pharmaceutical package comprising:
	2	(a)	a container comprising an ErbB antagonist for treating a cancer; and
	3	(b)	instructions to administer the ErbB antagonist to a subject if an erbB gene in
	4	tumor cells in a tissu	e sample from the subject is amplified.
	1	16.	The package of claim 15, wherein the ErbB antagonist is an antibody.
	1	17.	The package of claim 16, wherein the antibody is an anti-HER2 antibody.
	1	18.	The package of claim 17, wherein the anti-HER2 antibody is rhuMAb 4D5
	2	(Herceptin®).	
	1	19.	The package of claim 15, wherein the instructions further comprise directions
	2	to administer a chem	otherapeutic drug in combination with the ErbB antagonist.
	1	20.	The package of claim 19, wherein the chemotherapeutic drug is a taxoid.
	1	21.	A method for identifying a patient disposed to respond favorably to an ErbB
Y	2	antagonist for treating cancer, which method comprises detecting erbB gene amplification in tumor	
\	3	cells in a tissue sample from the patient.	

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- 22. The method according to claim 21, wherein the subject has been found to have
- a 0 or 1+ score by immunohistochemistry on a formaldehyde-fixed tissue sample.
  - 23. The method according to claim 21, wherein the *erbB* is *her2*.

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